POLYMER SYSTEMS WITH REACTIVE AND FUSIBLE PROPERTIES FOR SOLID FREEFORM FABRICATION

ABSTRACT OF THE DISCLOSURE

A powder system for use in solid freeform fabrication. The powder system includes at least one polymer having reactive properties and fusible properties. The at least one polymer is reactive with a liquid binder and is fusible at a temperature above the melting point or glass transition temperature of the at least one polymer. The at least one polymer may be a single co-polymer having at least one reactive portion and at least one fusible portion or may be a mixture of polymers including at least one reactive polymer and at least one fusible polymer. A method of forming an object by solid freeform fabrication is also disclosed.